

FIG.1

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$$a_{m-1}x^{m-1} + \cdots + a_2x^2 + a_1x + a_0$$

$$(a_{m-1}, \dots, a_2, a_1, a_0)$$

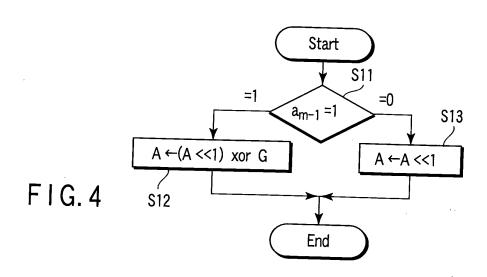
$$a_{m-1} \leftarrow a_{m-2}$$
...
$$a_2 \leftarrow a_1$$

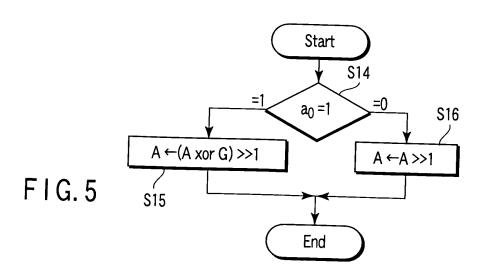
$$a_1 \leftarrow a_0$$

$$a_0 \leftarrow 0$$

FIG. 2

FIG.3

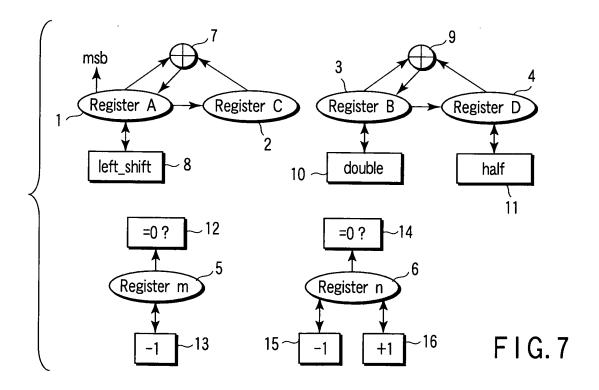




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	Α	В	С	D	m	n	Step
0	00011	00001	10011	00000	4	0	
1	<u>0011</u> 0	00010	10011	00000	3	1	Step1
2	<u>011</u> 00	00100	<u>10011</u>	00000	2	2	
3	<u>11</u> 000	01000	10011	00000	1	3	
4	<u>01011</u>	01000	<u>11</u> 000	01000	1	3	Step2
5	<u>1011</u> 0	01000	<u>11</u> 000	00100	1	2	Step3
6	<u>0111</u> 0	01100	<u>11</u> 000	00100	1	2	(If succeed)
6'	<u>11</u> 000	01100	<u>11</u> 000	00010	1	1	
7	<u>001</u> 00	01110	<u>11</u> 000	00010	1	1	(If succeed)
7'	<u>01</u> 000	01110	<u>11</u> 000	00001	1	0	
8	<u>1</u> 0000	01111	<u>11</u> 000	00001	0	1	Step1
9	<u>01</u> 000	01110	<u>1</u> 0000	01111	0	1	Step2
10	<u>1</u> 0000	01110	<u>1</u> 0000	01110	0	0	Step3

Result  $(0,1,1,1,0)=x^3+x^2+x$ 



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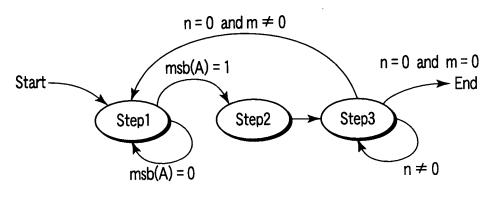
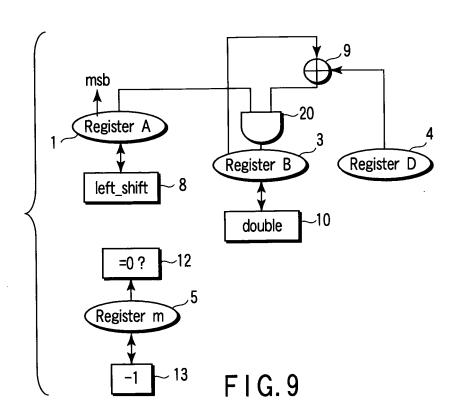


FIG.8



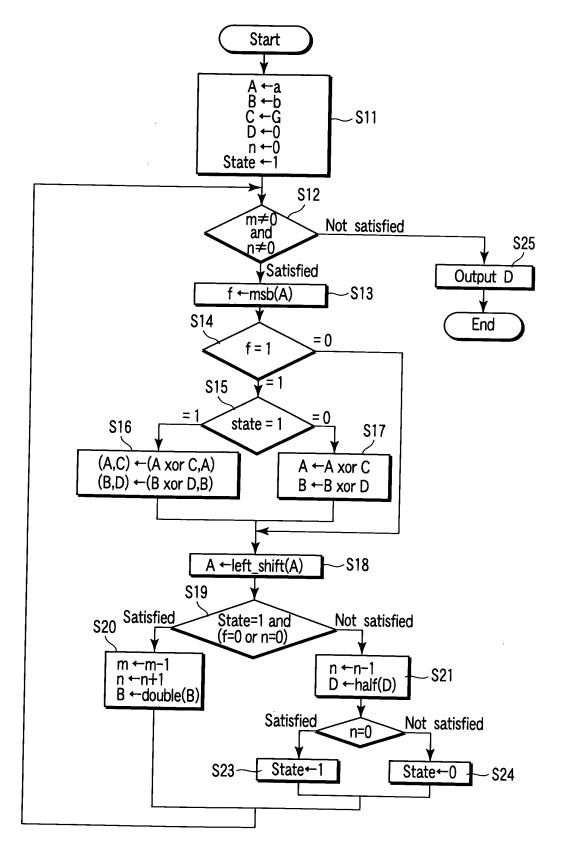


FIG. 11